BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Estimate for Improvements and Asphalting to Roads at KVS Layout, 1st & 2nd Cross, Dhanalakshmi Layout in Ward No. 09 (Vidyaranyapura).

Job Code: 009-20-000085

Estimated Cost: Rs: 20.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements and Asphalting to Roads at KVS Layout, 1st & 2nd Cross, Dhanalakshmi Layout in Ward No. 09 (Vidyaranyapura).**

	009-20-000085	P-3726	Estimate Cost:					2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	KVS Layout 1st Cross		2	70.00	0.45	0.40	25.20		
	2nd Cross		2	60.00	0.45	0.40	21.60		
	Cross Roads		2	47.00	0.45	0.40	16.92		
			2	32.00	0.45	0.40	11.52		
			2	190.00	0.45	0.40	68.40		
	Berm Cutting								
	KVS Layout 1st Cross		2	70.00	0.90	0.20	25.20		
	2nd Cross		2	60.00	0.90	0.20	21.60		
	Cross Roads		2	47.00	0.90	0.20	16.92		
			2	32.00	0.90	0.25	14.40		
			2	190.00	0.90	0.20	68.40		
							290.16	250.24	**72611.00**
	Basic Rate	130.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		236.08							
	Area Weightage @6%	14.16							
	Total	**250.24**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-**	Sqm							
	BS Slab Drain								
	KVS Layout 1st Cross		2	70.00		1.35	189.00		
	2nd Cross		2	60.00		1.35	162.00		
	Cross Roads		2	47.00		1.35	126.90		
			2	32.00		1.35	86.40		
			2	190.00		1.35	513.00		
	BS Slab Drain Covering Slab						**1077.30**		
	KVS Layout 1st Cross		2	70.00		0.90	126.00		
	2nd Cross		2	60.00		0.90	108.00		
	Cross Roads		2	47.00		0.90	84.60		
			2	32.00		0.90	57.60		
			2	190.00		0.90	342.00		
							718.20		
	Deduct 25 % of open space						-179.55		
	Total Qty						**538.65**		
							1615.95	111.30	**179855.00**
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 40%		Vide Item No. 2				430.92		
	Basic Rate	700.00					**430.92**	742.00	**319743.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
	KVS Layout 1st Cross		1	70.00	5.00		350.00		
	2nd Cross		1	60.00	4.80		288.00		
	Cross Roads		1	47.00	4.30		202.10		
			1	32.00	4.30		137.60		
			1	190.00	5.00		950.00		
	Total Qty						**1577.70**		
	Consider 25% of the Total Qty						**744.43**	95.40	**71018.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
5	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
	KVS Layout 1st Cross		1	70.00	5.00	0.25	87.50		
	2nd Cross		1	60.00	4.80	0.25	72.00		
	Cross Roads		1	47.00	4.30	0.25	50.53		
			1	32.00	4.30	0.25	34.40		
			1	190.00	5.00	0.25	237.50		
	Total Qty						**394.43**		
	Consider 25% of the Total Qty						**186.11**	2001.28	**372451.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	KVS Layout 1st Cross		1	70.00	5.00		350.00		
	2nd Cross		1	60.00	4.80		288.00		
	Cross Roads		1	47.00	4.30		202.10		
			1	32.00	4.30		137.60		
			1	190.00	5.00		950.00		
	Total Qty						**1927.70**		
	Consider 25% of the Total Qty						**481.93**	28.62	**13793.00**
	Revised Rate as on 03.01.2020 Basic Rate	27.00							
	Area Weightage @ 6%	1.62							
	Total	**28.62**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum							
	2nd Cross		1	60.00	4.80	0.05	14.40		
	Cross Roads		1	47.00	4.30	0.05	10.11		
			1	32.00	4.30	0.05	6.88		
			1	190.00	5.00	0.05	47.50		
	Total Qty						**78.89**		
	Consider 25% of the Total Qty						**19.72**	5363.60	**105777.00**
	Revised Rate as on 03.01.2020 Basic Rate	5060.00							
	Area Weightage @ 6%	303.60							
	Total	**5363.60**							
8	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	2nd Cross		1	60.00	4.80		288.00		
	Cross Roads		1	47.00	4.30		202.10		
			1	32.00	4.30		137.60		
			1	190.00	5.00		950.00		
	Total Qty						**1577.70**	5.30	**8362.00**
	Basic Rate	5.00							
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
9	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries, complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD**	Sqm							
			Qty Vide Item No. 8				1577.70		
	Revised Rate as on 03.01.2020 Basic Rate	12.00					**1577.70**	12.72	**20068.00**
	Area Weightage @ 6%	0.72							
	Total	**12.72**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum							
	KVS Layout 1st Cross		1	70.00	5.00	0.040	14.00		
	2nd Cross		1	60.00	4.80	0.040	11.52		
	Cross Roads		1	47.00	4.30	0.040	8.08		
			1	32.00	4.30	0.040	5.50		
			1	190.00	5.00	0.040	38.00		
	Revised Rate as on 03.01.2020 Basic Rate	7161.00					**77.11**	7590.66	**585301.00**
	Area Weightage @ 6%	429.66							
	Total	**7590.66**							
11	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **Page No. 182, Item No. 24.15 PWD SR 2018-19**	Sqm							
	KVS Layout 1st Cross		2	70.00	0.10		14.00		
	2nd Cross		2	60.00	0.10		12.00		
	Cross Roads		2	47.00	0.10		9.40		
			2	32.00	0.10		6.40		
			2	190.00	0.10		38.00		
	Revised Basic Rate	429.00					**79.80**	454.74	**36288.00**
	Area Weightage @ 6%	25.74							
	Total	**454.74**							
	Sub Total								**1785267.00**
	GST @ 12%								**214232.00**
	Miscellaneous and other Charges	L/S							**501.00**
								Total	**2000000.00**
	Rupees Twenty Lakh(s) Only								

Administrative Approval
Accorded For Rs. 20.00 lakhs only
Head of A/C. P 3726
CER NO :..132..... Dt:20.03.2020
TA ACE (YNK)

TECHNICAL SANCTION
Accorded For Rs. 20.00 lakhs only
Head of A/C. P3726, P
Div. Ref. No. 46 Date 24/4/2020
AE EE(BTP) 24/04

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 This work included under 2019-20 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

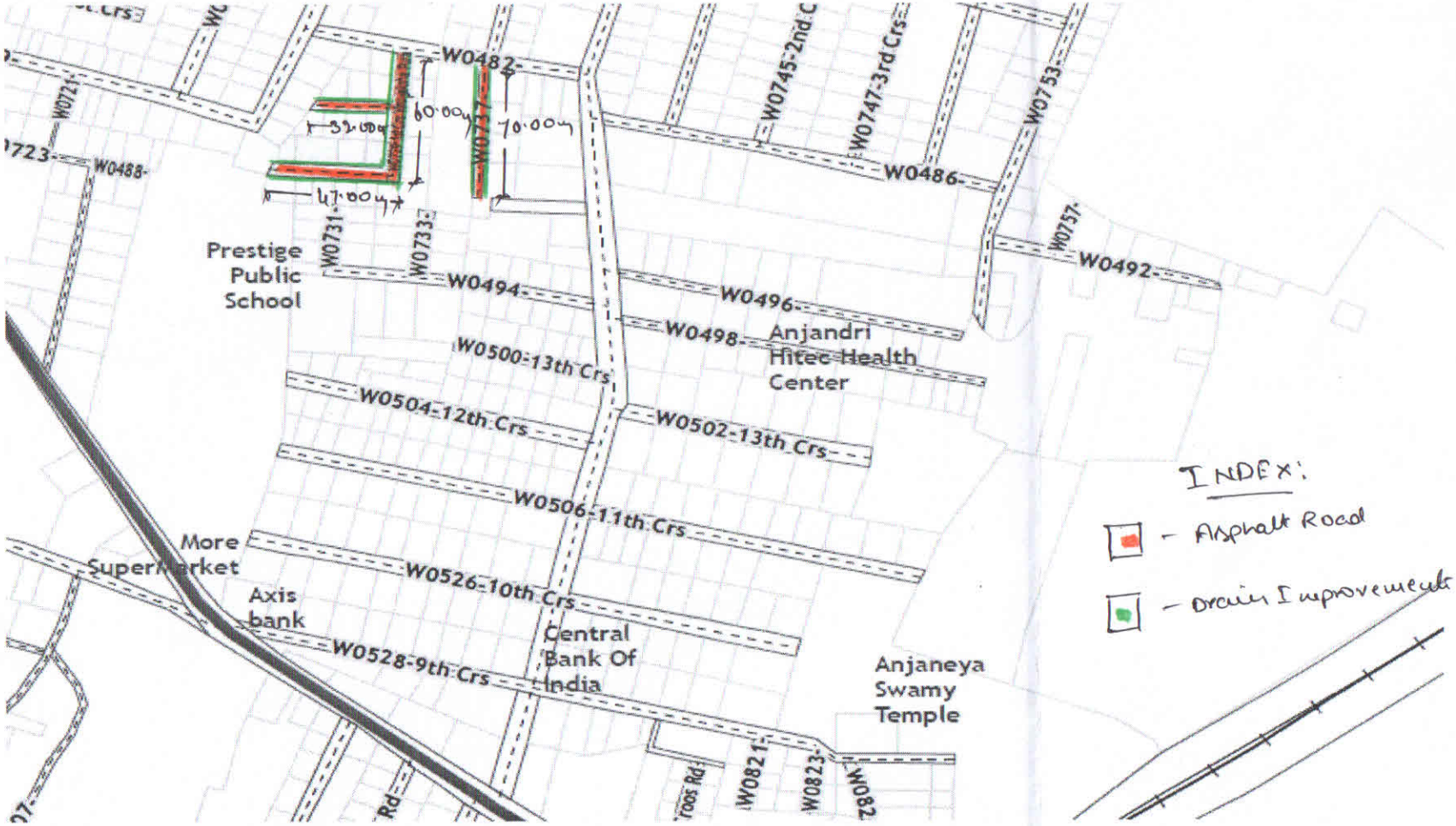
Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Executive Engineer
Byatarayanapura Division
Yelahanka Zone BBMP

Name of work: Improvements and Asphalting to Roads at KVS Layout, 1st & 2nd Cross, Dhanalakshmi Layout in Ward No. 09 (Vidyaranyapura).



Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

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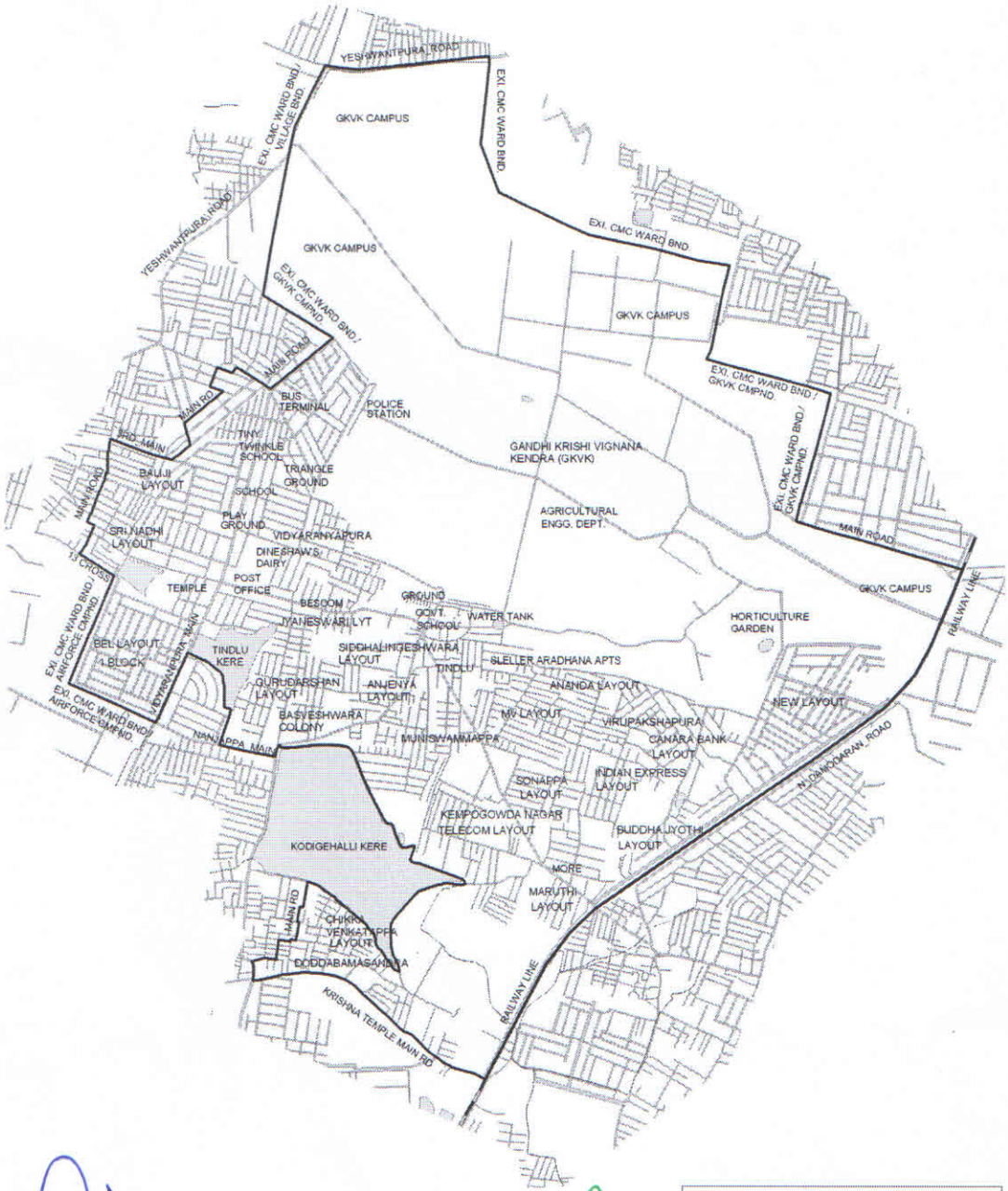
WARD NAME : 9 - VIDYARANYAPURA



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